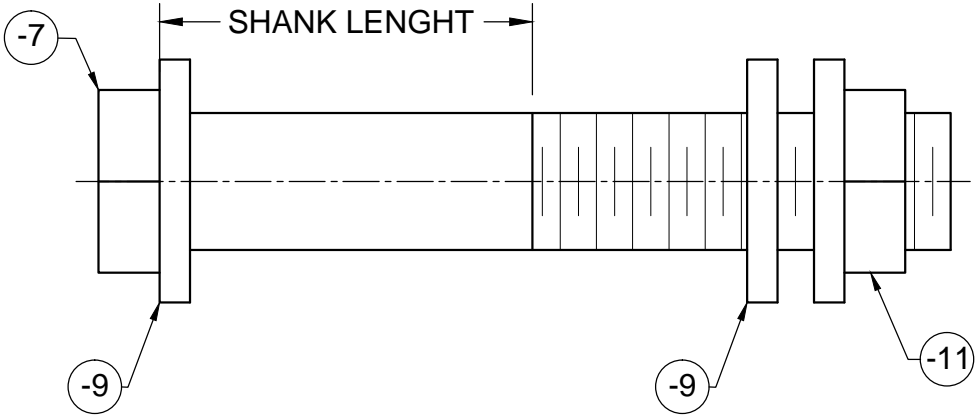


		REVISIONS		
REV	DESCRIPTION	DATE	INITIAL	APPROVED
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UNDER REVIEW

URF 19-1104 19.10.30 (VM)

								RED BARN MACHINE		
		-7 HEX HEAD CAP SCREW (QTY. 1)			-9 MACH. WASHER		-11 NUT (QTY. 1)	TITLE PORTABLE BEARING INSTALL & REMOVAL TOOLS; HARDWARE		
TOOL #	BRG. ID.	SCREW SIZE	SHANK LENGTH	MAT.	QTY.	TYPE	TYPE	DWG NO.	CHARTED TOOL No. -7, 9, & 11	REV -
KIR4103-7	.3125	5/16-18 UNC x 3-3/8	3/4 or less	GR. 8	2	Ø5/16 ID.	5/16-18 UNC SW. FLG. NUT MCMASTER-CAR #90477A030			
								<div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</div> <div>TOLERANCES ON:</div> <div>DECIMALS .XXX ± .005 FRACTIONS ± 1/32</div> <div>.XX ± .01 ANGLES ± 5°</div> <div>X ± .1</div> <div>UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING</div> <div>SCALE NTS</div> <div>DATE 10-22-10</div> <div>SHEET 5 of 5</div>		
								<div>DRAWN BY: PERRITT</div> <div>APPROVED</div> <div>HEAT TREAT</div> <div>FINISH ALL BLACK OXIDE</div> <div>SPEC USED ON BEARING</div>		

Technical drawing of a 1/2" 303 stainless steel alignment seat. The drawing includes a top view and a side view.

Top View:

- Outer diameter: ØA
- Inner diameter: ØB
- Feature A: Circular runout tolerance of .002
- Inner diameter: ØD


Side View:

- Overall width: E
- Inner diameter: ØC (x2)
- Feature A: Circular runout tolerance of .002
- Feature B: Circular runout tolerance of .002
- Feature C: Circular runout tolerance of .002
- Feature D: Circular runout tolerance of .002
- Feature E: Circular runout tolerance of .002
- Feature F: Circular runout tolerance of .002
- Feature G: Circular runout tolerance of .002
- Feature H: Circular runout tolerance of .002
- Feature I: Circular runout tolerance of .002
- Feature J: Circular runout tolerance of .002
- Feature K: Circular runout tolerance of .002
- Feature L: Circular runout tolerance of .002
- Feature M: Circular runout tolerance of .002
- Feature N: Circular runout tolerance of .002
- Feature O: Circular runout tolerance of .002
- Feature P: Circular runout tolerance of .002
- Feature Q: Circular runout tolerance of .002
- Feature R: Circular runout tolerance of .002
- Feature S: Circular runout tolerance of .002
- Feature T: Circular runout tolerance of .002
- Feature U: Circular runout tolerance of .002
- Feature V: Circular runout tolerance of .002
- Feature W: Circular runout tolerance of .002
- Feature X: Circular runout tolerance of .002
- Feature Y: Circular runout tolerance of .002
- Feature Z: Circular runout tolerance of .002

Notes:

- ALIGNMENT SEAT
- ENGRAVE TOOL No.

URF 19-1104 19.10.30 (VM)

 RED BARN MACHINE			
TITLE PORTABLE BEARING INSTALL & REMOVAL TOOLS; ALIGNMENT SEAT			
DWG NO. CHARTED TOOL No. -5			REV -
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS: .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°		DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC BLACK OXIDE USED ON BEARING SEE CHART	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LINES APPLY AFTER PLATING			
SCALE NTS	DATE 10-22-10	SHEET 4	of 5

Technical drawing of a 1/2 inch diameter ball bearing. The drawing includes a front view (left) and a section view (right, labeled SECTION A-A).

Front View Dimensions:

- Outer Diameter: $\varnothing A$
- Bore Diameter: $\varnothing B$
- Inner Diameter: $\varnothing C$
- Feature A: A rectangular feature on the outer ring.
- Feature B: A rectangular feature on the inner ring.
- Feature C: A rectangular feature on the inner ring.
- Feature D: A rectangular feature on the inner ring.
- Feature E: A rectangular feature on the inner ring.
- Feature F: A rectangular feature on the inner ring.
- Feature G: A rectangular feature on the inner ring.
- Feature H: A rectangular feature on the inner ring.
- Feature I: A rectangular feature on the inner ring.
- Feature J: A rectangular feature on the inner ring.
- Feature K: A rectangular feature on the inner ring.
- Feature L: A rectangular feature on the inner ring.
- Feature M: A rectangular feature on the inner ring.
- Feature N: A rectangular feature on the inner ring.
- Feature O: A rectangular feature on the inner ring.
- Feature P: A rectangular feature on the inner ring.
- Feature Q: A rectangular feature on the inner ring.
- Feature R: A rectangular feature on the inner ring.
- Feature S: A rectangular feature on the inner ring.
- Feature T: A rectangular feature on the inner ring.
- Feature U: A rectangular feature on the inner ring.
- Feature V: A rectangular feature on the inner ring.
- Feature W: A rectangular feature on the inner ring.
- Feature X: A rectangular feature on the inner ring.
- Feature Y: A rectangular feature on the inner ring.
- Feature Z: A rectangular feature on the inner ring.

Section View Dimensions:

- Section A-A: A cross-section of the bearing.
- Feature A: A rectangular feature on the outer ring.
- Feature B: A rectangular feature on the inner ring.
- Feature C: A rectangular feature on the inner ring.
- Feature D: A rectangular feature on the inner ring.
- Feature E: A rectangular feature on the inner ring.
- Feature F: A rectangular feature on the inner ring.
- Feature G: A rectangular feature on the inner ring.
- Feature H: A rectangular feature on the inner ring.
- Feature I: A rectangular feature on the inner ring.
- Feature J: A rectangular feature on the inner ring.
- Feature K: A rectangular feature on the inner ring.
- Feature L: A rectangular feature on the inner ring.
- Feature M: A rectangular feature on the inner ring.
- Feature N: A rectangular feature on the inner ring.
- Feature O: A rectangular feature on the inner ring.
- Feature P: A rectangular feature on the inner ring.
- Feature Q: A rectangular feature on the inner ring.
- Feature R: A rectangular feature on the inner ring.
- Feature S: A rectangular feature on the inner ring.
- Feature T: A rectangular feature on the inner ring.
- Feature U: A rectangular feature on the inner ring.
- Feature V: A rectangular feature on the inner ring.
- Feature W: A rectangular feature on the inner ring.
- Feature X: A rectangular feature on the inner ring.
- Feature Y: A rectangular feature on the inner ring.
- Feature Z: A rectangular feature on the inner ring.


Other Dimensions:

- Overall Width: .109
- Inner Diameter: $\varnothing D$
- Inner Diameter: $\varnothing E$
- Inner Diameter: $\varnothing F$
- Inner Diameter: $\varnothing G$
- Inner Diameter: $\varnothing H$
- Inner Diameter: $\varnothing I$
- Inner Diameter: $\varnothing J$
- Inner Diameter: $\varnothing K$
- Inner Diameter: $\varnothing L$
- Inner Diameter: $\varnothing M$
- Inner Diameter: $\varnothing N$
- Inner Diameter: $\varnothing O$
- Inner Diameter: $\varnothing P$
- Inner Diameter: $\varnothing Q$
- Inner Diameter: $\varnothing R$
- Inner Diameter: $\varnothing S$
- Inner Diameter: $\varnothing T$
- Inner Diameter: $\varnothing U$
- Inner Diameter: $\varnothing V$
- Inner Diameter: $\varnothing W$
- Inner Diameter: $\varnothing X$
- Inner Diameter: $\varnothing Y$
- Inner Diameter: $\varnothing Z$

Notes:

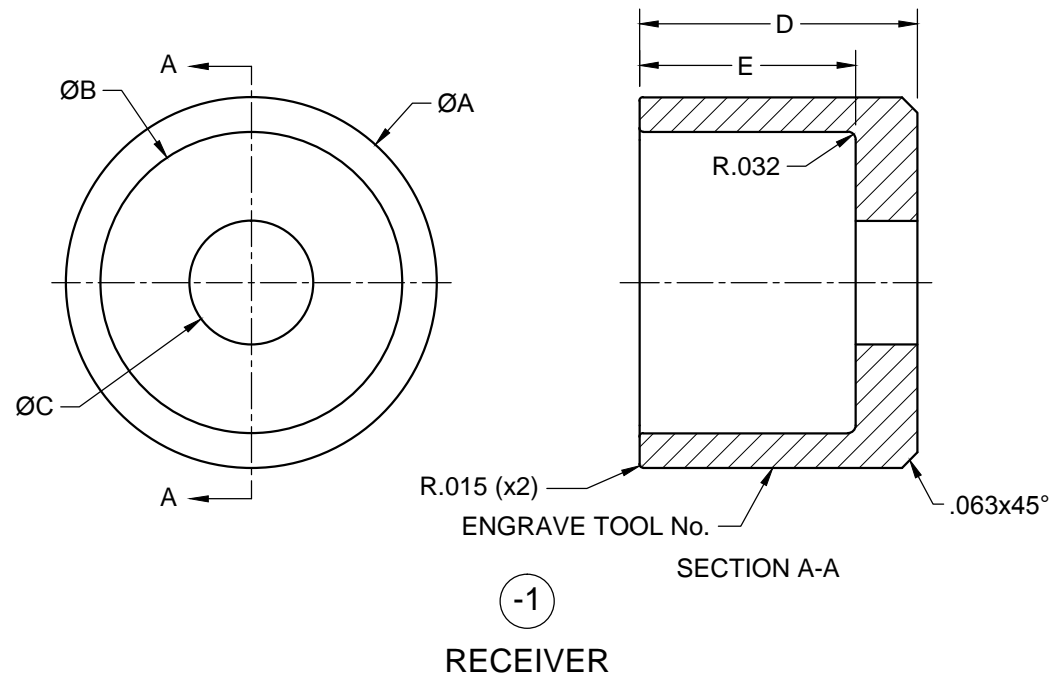
- REMOVER / INSTALLER
- SECTION A-A

URF 19-1104 19.10.30 (VM)

 RED BARN MACHINE	
TITLE PORTABLE BEARING INSTALL & REMOVAL TOOLS; REMOVER/INSTALLER	
DWG NO.	CHARTED TOOL No. -3
REV —	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC BLACK OXIDE USED ON BEARING SEE CHART
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 10-22-10
SHEET 3 of 5	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
-	-	-	-



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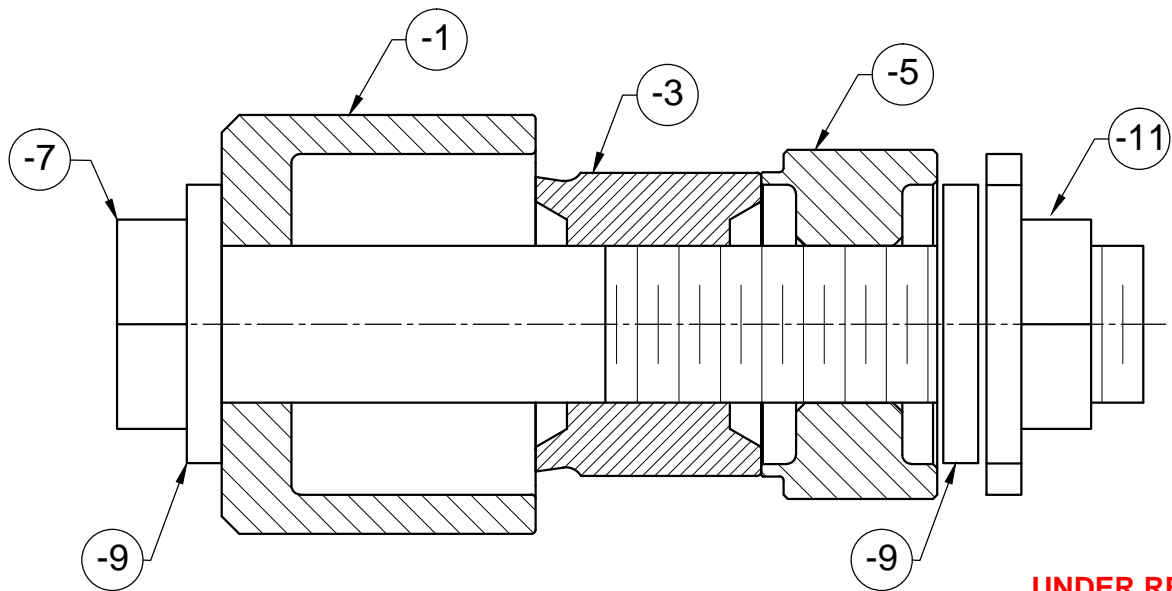
URF 19-1104 19.10.30 (VM)

TOOL #	ØA +.010 -.010	ØB +.005 -.005	ØC +.005 -.000	D +.010 -.010	E +.010 -.010	MATERIAL	SPECIFICATIONS
RBIR7028	1.375	1.038	.313	1.312	1.062	1018	Ø1-3/8 x 1-1/8

RED BARN MACHINE	
TITLE PORTABLE BEARING INSTALL & REMOVAL TOOLS; RECIEVER	
DWG NO. CHARTED TOOL No. -1	REV -
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	
FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 10-22-10
SHEET 2 of 5	

DRAWN BY: PERRITT
APPROVED
HEAT TREAT
FINISH SPEC BLACK OXIDE
USED ON BEARING
SEE CHART

REV		DESCRIPTION	REVISIONS		
REV			DATE	INITIAL	APPROVED
-	-		-	-	



UNDER REVIEW

URF 19-1104 19.10.30 (VM)

BEARING #	TOOL #
206-010-470-101	RBIR7028

ASSY QTY	ASSY QTY	B/O	PART #	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.
			-1	1	RECEIVER		SEE CHART	2
			-3	1	REMOVER / INSTALLER		SEE CHART	3
			-5	1	ALIGNMENT SEAT		SEE CHART	4
		B/O	-7	1	HEX HEAD CAP SCREW		SEE CHART	5
		B/O	-9	SEE CHART	MACHINE WASHER		SEE CHART	5
		B/O	-11	1	NUT		SEE CHART	5
	ASSY #							

RB RED BARN MACHINE	
TITLE PORTABLE BEARING INSTALL & REMOVAL TOOLS	
DWG NO. SEE CHART FOR TOOL No.	REV -
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: PERRITT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC BLACK OXIDE USED ON BEARING SEE CHART ABOVE
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES 015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 10-22-10 SHEET 1 of 5

NOT APPROVED FOR PRODUCTION

UNDER REVIEW
URF 19-1104 19.10.30 (VM)

 RED BARN MA

URF 19-1104 19.10.30 (VM)


 RED BARN MACHINE

NOT APPROVED FOR PRODUCTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

UNDER REVIEW
URF 19-1104 19.10.30 (VM)

	PART #	QTY	DESCRIPTION
	-1	1	--

DRAWN BY: PERRITT	 RED BARN MACHINE		
CHECKED			
HEAT TREAT FINISH SPEC			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5° .X ± .1			
USED ON MODEL ?	TITLE	TITLE	
	DWG NO.	PART #	REV.
	SCALE NTS	DATE 1-28-06	SHEET 1 of 1
	UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		